



Zootaxa 2253: 1–95 (2009)
www.mapress.com/zootaxa/

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Monograph

ISSN 1175-5326 (print edition)

ZOOTAXA

ISSN 1175-5334 (online edition)

ZOOTAXA

2253

Eriophyoid mites on Fagaceae with descriptions of seven new genera and eleven new species (Acari: Eriophyoidea)

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Magnolia Press
Auckland, New Zealand

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(Acari: Eriophyoidea)

(*Zootaxa* 2253)

95 pp.; 30 cm.

8 Oct. 2009

ISBN 978-1-86977-423-3 (paperback)

ISBN 978-1-86977-424-0 (Online edition)

FIRST PUBLISHED IN 2009 BY

Magnolia Press

P.O. Box 41-383

Auckland 1346

New Zealand

e-mail: zootaxa@mapress.com

<http://www.mapress.com/zootaxa/>

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ISSN 1175-5326 (Print edition)

ISSN 1175-5334 (Online edition)

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Abstract

Up to now, 64 genera and 178 eriophyoid mite species are known to occur on the Fagaceae. We described and illustrated herein seven new genera and eleven new eriophyoid species associated with plants in the family Fagaceae, collected from eleven provinces in China. They are: *Bariella spinishieldis* sp. nov. on *Quercus* sp.; *Calesalquia tiantangzhaica* gen. nov. & sp. nov. on *Quercus* sp.; *Acaphyllisa quinqueredges* sp. nov. on *Cyclobalanopsis glauca*; *Jiangsuacarus huaguoshanensis* gen. nov. & sp. nov. on *Quercus* sp.; *Spinacarus guniujiangensis* gen. nov. & sp. nov. on *Cyclobalanopsis glauca*; *Calvittacus chenius* sp. nov. on *Quercus chenii*; *Cereusacarus maopingensis* gen. nov. & sp. nov. on *Cyclobalanopsis glauca*; *Neovittacus shitaicus* gen. nov. & sp. nov. on *Quercus* sp.; *Paracaliphytoptus yangensis* gen. nov. & sp. nov. on *Cyclobalanopsis glauca*; *Shaanxicarus glaucaer* gen. nov. & sp. nov. on *Cyclobalanopsis glauca*; and *Rhyncaphytoptus qimenensis* sp. nov. on *Cyclobalanopsis glauca*. An updated checklist and a key to the eriophyoid mite genera on the Fagaceae are provided. Three new combinations are given: *Jiangsuacarus abietis* (Kuang & Luo, 2005) comb. nov. on *Abies fabri* (Pinaceae); *Jiangsuacarus dolichocladae* (Song, Xue & Hong, 2008) comb. nov. on *Bambusa dolichoclada* (Poaceae); and *Coptophylla querci* (Chandrapatya & Boczek, 2000), comb. nov. on *Quercus mespilifolioides* (Fagaceae).

Key words: plant feeding, taxonomy, host relationship, new combination, key